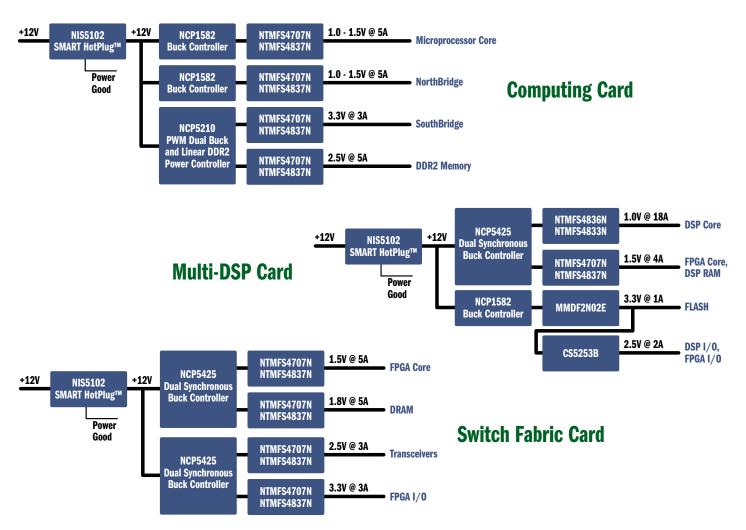
(R)

Presenting +12 V Telecom Power Conversion Solutions

Complies with Advanced MC Specifications



Comprehensive Power Conversion Solutions for Mezzanine Cards in Routers, Switches and Base Stations

- Highly Integrated Devices Reduce Part Count
- Robust Hot Swap Protection Includes Innovative MOSFET Temperature Sensing Shutdown
- State-of-the-Art Approach to DC-DC Conversion



Presenting +12 V Telecom Power Conversion Solutions

NIS5102 SMART HotPlug[™] is a hot swap protection device for +12 V circuits. The combination of an integrated power MOSFET switch and a unique temperature-sensing capability makes this the most robust hot swap IC available. This highly integrated device also provides adjustable current limit with no external shunt required, undervoltage and overvoltage lockout, and a power good indicator.

NCP1582 Low Voltage Synchronous Buck Controller is a voltage mode PWM controller designed to operate from a 5 V or 12 V supply and produce an output voltage as low as 0.8 V. Features include a 0.7 A gate driver and an internally set 350 kHz oscillator. The NCP1582 also incorporates an externally compensated transconductance error amplifier and a programmable soft–start function. Protection features include short circuit protection (SCP) and under voltage lockout (UVLO).

NCP5210 3-In-1 PWM Dual Buck and Linear DDR Power Controller contains two synchronous PWM buck controller for driving four external N–Ch FETs to form the DDR memory supply voltage (VDDQ) and the MCH regulator. Protective features include, soft–start circuitry, undervoltage monitoring of 5VDUAL and BOOT voltage, and thermal shutdown.

NCP5425 Dual Synchronous Buck Controller is a highly flexible device with internal gate drivers that can provide two independent outputs or one high current output. This feature-rich controller offers adjustable switching frequency up to 750 kHz and a $\pm 1\%$ 0.8 V reference.

BILL OF MATERIALS		
ON SEMICONDUCTOR DEVICE	PACKAGE	AVAILABILITY
NIS5102QP2HT1G	PDFN-12	Production
NCP1582DR2G	SOIC-8	Production
NCP5425DBG	TSSOP-20	Production
NCP5210MNR2G	QFN-20	Production
CS5253B-1GDPR5G	D2PAK	Production
NTMFS4707NT1G	SO-8FL	Production
NTMFS4833NT1G	SO-8FL	Production
NTMFS4836NT1G	SO-8FL	Production
NTMFS4837NT1G	SO-8FL	Production



www.onsemi.com